Amendment dated

Reply to Final Office Action of January 24, 2007

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(Cancelled)

(Previously Presented) The method of claim 50 further comprising the step of specifying

a feature-value set for a plurality of user network terminal devices, said feature-value set

including a set of selected device features with one or more discrete feature values assigned to

each said selected device feature, each said selected device feature selected from the features of the plurality of user network terminal devices in accordance with a pre-established criterion.

3. (Original) The method of claim 2 wherein said set of selected device features comprises a

member of the group consisting of display size, aspect ratio, display line count, color capability, graphics canability, variable size text capability, different font canability, input capability, and

input bandwidth.

4. (Original) The method of claim 2 wherein said pre-established criterion includes a

determination that a particular said selected device feature affects the manner in which the

authored content is presented.

5. (Original) The method of claim 2 wherein said feature value set comprises discrete values

assigned to selected features of a generic network terminal device.

6. (Original) The method of claim 5 wherein said generic network terminal device

comprises a set of device features selected from the display features of the plurality of user

network terminal devices.

(Cancelled)

Page 2 of 17

Amendment dated

Reply to Final Office Action of January 24, 2007

8. (Previously Presented) The method of claim 50 wherein said step of converting the device-independent content comprises the step of invoking said markup information corresponding to the device feature values associated with the user network terminal device.

corresponding to the device reduce values associated with the aser network terminal device

 (Previously Presented) The method of claim 50 wherein said step of converting the device-independent content comprises the step of removing said markup information from said

device-independent content.

10. (Previously Presented) The method of claim 50 further comprising the steps of:

automatically analyzing said device-independent content; and

automatically embedding meta-data into said device-independent content, said meta-data

comprising device feature values based on the device-independent content.

11. (Previously Presented) The method of claim 50 wherein said requesting user network

terminal device comprises at least one of a wireless telephone and a personal digital assistant.

12. (Previously Presented) The method of claim 50 further comprising the step of identifying

said requesting user network terminal device prior to said step of identifying one or more of the

device feature values associated with the user network terminal device.

13. (Original) The method of claim 12 wherein said step of identifying said requesting user

network terminal device comprises the step of reading network terminal device information

contained in said request.

14. (Previously Presented) The method of claim 50 wherein said step of converting the

device-independent content comprises the steps of:

determining the array of display pixels available in said requesting user network terminal

device based on the device feature values associated with the user network

terminal device:

Page 3 of 17

Amendment dated

Reply to Final Office Action of January 24, 2007

comparing said array of display pixels with an array of image pixels corresponding to an image in the device-independent content;

- selecting said image for display in said requesting user network terminal device if said array of image pixels does not exceed said array of display pixels; and
- suppressing said image from display if said array of image pixels does exceed said array of display pixels.
- 15. (Previously Presented) The method of claim 50 wherein said step of converting the device-independent content comprises the steps of:
 - determining an aspect ratio for said requesting user network terminal device from the device feature values associated with the user network terminal device;
 - sending content marked with an attribute of square to said requesting user network terminal device if said aspect ratio is square;
 - sending content marked with an attribute of portrait to said requesting user network terminal device if said aspect ratio is portrait; and
 - sending content marked with an attribute of landscape to said requesting user network terminal device if said aspect ratio is landscape.
- 16. (Previously Presented) The method of claim 50 wherein said step of converting the device-independent content comprises the steps of:
 - determining that said device-independent content is marked as having a uni-axis free form characteristic;
 - identifying the number of segments supported by the display in said requesting user network terminal device;
 - concatenating a number of rows for sending to said requesting user network terminal device if said uni-axis free form characteristic includes a list characteristic, wherein said number of rows corresponds to said number of segments supported; and

Amendment dated

Reply to Final Office Action of January 24, 2007

concatenating a number of columns for sending to said requesting user network terminal

device if said uni-axis free form characteristic includes a column characteristic,

wherein said number of columns corresponds to said number of segments

supported.

17. (Previously Presented) The method of claim 50 wherein said step of converting the

device-independent content comprises the steps of:

determining that said device-independent content is marked as having bi-axially free

form characteristic;

identifying the character count supported by a display in said requesting user network

terminal device:

sending to said requesting user network terminal device a segment of content, wherein

the character count in said segment corresponds to said character count supported

by said display.

18-19. (Cancelled)

20. (Previously Presented) The communication system of claim 51 further comprising a

device profile repository accessible by said network terminal device detector, said device profile

repository including a feature-value set for the requesting user network terminal device, said

feature-value set including a set of selected user network terminal device features with one or more discrete device feature values assigned to each said selected user network terminal device

feature.

21. (Previously Presented) The communication system of claim 51 further comprising a

content repository accessible by said origin server, said content repository for storing annotated

authored content whereby said origin server provides device-independent content from said

annotated authored content.

Page 5 of 17

Amendment dated

Reply to Final Office Action of January 24, 2007

22. (Previously Presented) The communication system of claim 51 wherein said at least one

user network terminal device feature value is selected from the features of the requesting user

network terminal device in accordance with a pre-established criterion.

23. (Previously Presented) The communication system of claim 51 wherein said set of device

feature values associated with the requesting user network terminal device comprises a member

of the group consisting of display size, aspect ratio, display line count, color capability, graphics

capability, variable size text capability, different font capability, and input capability.

24. (Previously Presented) The communication system of claim 51 wherein said requesting

user network terminal device comprises at least one of a wireless telephone and a personal digital

assistant.

(Cancelled)

26. (Previously Presented) The method of claim 52 wherein said step of converting

comprises the step of converting the content by interpreting metatags embedded in the content.

27. (Previously Presented) The method of claim 52 wherein said step of converting

comprises the step of converting the content into a landscape-formatted display format if the

terminal device has a landscape-formatted display, and converting the content into a portrait-

formatted display format if the terminal device has a portrait-formatted display.

28. (Previously Presented) The method of claim 52 wherein said step of converting

comprises the step of converting the content into a first aspect ratio if the terminal device has

said first aspect ratio, and converting the content into a second aspect ratio if the terminal device

has said second aspect ratio.

Page 6 of 17

Amendment dated

Reply to Final Office Action of January 24, 2007

29. (Previously Presented) The method of claim 52 wherein said step of converting

comprises the step of converting the content into a small-sized image if the terminal device

accommodates only small-sized images, and converting the content into a large-sized image if

the terminal device accommodates large-sized images.

30. (Previously Presented) The method of claim 52 further comprising the step of annotating

the content with meta-data to indicate the manner in which portions of the content should be

represented on a plurality of different terminal devices having mutually incompatible display

characteristics.

31. (Previously Presented) The method of claim 52 wherein said step of converting

comprises the step of performing a best-fit match between said device display characteristics and

one of a plurality of display formats.

(Cancelled)

33. (Previously Presented) The method of claim 53, wherein step (b) comprises determining

a device type of the requesting data processing device, and looking up the one or more display

feature values based on the device type.

34. (Previously Presented) The method of claim 53 wherein one of said one or more display

feature values corresponds to a display size of the requesting data processing device.

35. (Previously Presented) The method of claim 53 wherein one of said one or more display

feature values corresponds to an aspect ratio of the requesting data processing device.

36. (Previously Presented) The method of claim 53 wherein one of said one or more display

feature values corresponds to a display line count of the requesting data processing device.

Page 7 of 17

Amendment dated

Reply to Final Office Action of January 24, 2007

37. (Previously Presented) The method of claim 53 wherein one of said one or more display

feature values corresponds to a color capability of the requesting data processing device.

38. (Previously Presented) The method of claim 53 wherein one of said one or more display

feature values corresponds to a variable size text capability of the requesting data processing

device.

39. (Previously Presented) The method of claim 53 wherein one of said one or more display

feature values corresponds to a multiple font capability of the requesting data processing device.

40. (Previously Presented) The method of claim 53 wherein one of said one or more display

feature values corresponds to an input capability of the requesting data processing device.

41. (Previously Presented) The method of claim 53 wherein one of said one or more display

feature values corresponds to an input bandwidth of the requesting data processing device.

(Cancelled)

43. (Previously Presented) The method of claim 53, wherein said converting step comprises

removing the annotations from the device-independent content.

44. (Previously Presented) The method of claim 53, wherein said requesting data processing

device comprises a wireless telephone.

45. (Previously Presented) The method of claim 53 wherein step (e) comprises the steps of:

determining an array of display pixels available in said requesting data processing device

based on the one or more display feature values;

comparing said array of display pixels with an array of image pixels corresponding to a

content image;

Page 8 of 17

Amendment dated

Reply to Final Office Action of January 24, 2007

selecting said content image for display in said requesting data processing device if said array of image pixels does not exceed said array of display pixels; and

suppressing said content image from display if said array of image pixels does exceed said array of display pixels.

46. (Previously Presented) The method of claim 53, wherein step (e) comprises steps of:

determining an aspect ratio for said requesting data processing device based on the one or

more display feature values; and

sending device-specific content in the determined aspect ratio to said data processing

terminal device.

47. (Previously Presented) The method of claim 46, wherein said aspect ratio comprises a

square aspect ratio.

48. (Previously Presented) The method of claim 46, wherein said aspect ratio comprises a

portrait aspect ratio.

49. (Previously Presented) The method of claim 46, wherein said aspect ratio comprises a

landscape aspect ratio.

(Previously Presented) A method for providing device-specific content, comprising:

receiving device-independent content comprising markup information identifying one or

more device feature values associated with the device-independent content, wherein the device-independent content is responsive to a content request from a

wherein the device-independent content is responsive to a content request from

user network terminal device:

identifying one or more device feature values associated with the user network terminal

device;

Page 9 of 17

Amendment dated

Reply to Final Office Action of January 24, 2007

matching at least one of the device feature values associated with the device-independent content with at least one of the device features values associated with the user network terminal device:

based on said matching, converting the device-independent content into device-specific content adapted to said user network terminal device: and

providing the device-specific content to the user network terminal device.

51. (Currently Amended) A communication-system for providing device-specific content, comprising:

a network terminal device detector for receiving a content request from a user network terminal device and determining therefrom one or more device feature values associated with the requesting user network terminal device:

an origin server for receiving said content request and, in response thereto, providing device-independent content corresponding to said content request, wherein said device-independent content comprises markup information identifying one or more device feature values associated with the device-independent content:

a transformer for receiving said device-independent content from said origin server, for associating at least one of the device feature values associated with the device-independent content with at least one of the device features values associated with the user network terminal device, and for transforming said device-independent content into device-specific content formatted for the requesting user network terminal device.

52. (Previously Presented) A method of presenting content to a terminal device, said method comprising the steps of:

receiving a request for content from a terminal device;

based on said request, identifying one or more device display characteristics associated with the terminal device:

Amendment dated

Reply to Final Office Action of January 24, 2007

receiving content responsive to the request, wherein said content comprises markup information identifying one or more content display characteristics, said content display characteristics expressing an author intent for displaying said content on a plurality of devices having different display characteristics:

matching one or more device display characteristics with one or more content display

based on said matching, converting the content into a device-dependent format compatible with one or more device display characteristics; and

transmitting said device-dependent formatted content to the terminal device.

- (Previously Presented) A method for providing device-specific content comprising steps of:
 - receiving a request for content from a data processing device;
- (b) identifying one or more display feature values associated with the requesting data processing device;
- (c) receiving device-independent content responsive to the request for content, the device-independent content comprising embedded annotations specifying author intent for displaying the content on a plurality of devices having different display characteristics, said embedded annotations including one or more content display feature values;
- (d) matching one or more display feature values associated with the requesting data processing device with one or more content display feature values in the embedded annotations in the device-independent content; and
- (e) converting the device-independent content into device-specific content based on said matching, said device-specific content compatible with one or more display feature values associated with the requesting data processing device.
- 54. (New) The method of claim 50, wherein the markup information comprises a first metatag identifying a first value for a first device feature and a second metatag identifying a second different value for the first device feature.

Amendment dated

Reply to Final Office Action of January 24, 2007

55. (New) The method of claim 54, wherein the first metatag is associated with a first portion of requested content and the second metatag is associated with a related second portion of requested content, and wherein only one of the first portion and the second portion is included in the device-specific content.

56. (New) An apparatus comprising:

a processor controlling some operations of the apparatus in conformance with computer

executable instructions stored in memory, said instructions comprising:

receiving device-independent content comprising markup information identifying one or more device feature values associated with the device-independent

content, wherein the device-independent content is responsive to a content

request from a user network terminal device;

identifying one or more device feature values associated with the user network

terminal device:

matching at least one of the device feature values associated with the device-

independent content with at least one of the device features values

associated with the user network terminal device;

based on said matching, converting the device-independent content into device-

specific content adapted to said user network terminal device; and

providing the device-specific content to the user network terminal device.